Service Schematics



RM-274

Introduction

Important:

This document is intended for use by authorized service centers only.

“Service Schematics“ was created with focus on customer care.
The purpose of this document is to provide further technical repair information for NOKIA mobile phones on Level 3/4 service activities.
It contains additional information such as e.g. “Component finder”.

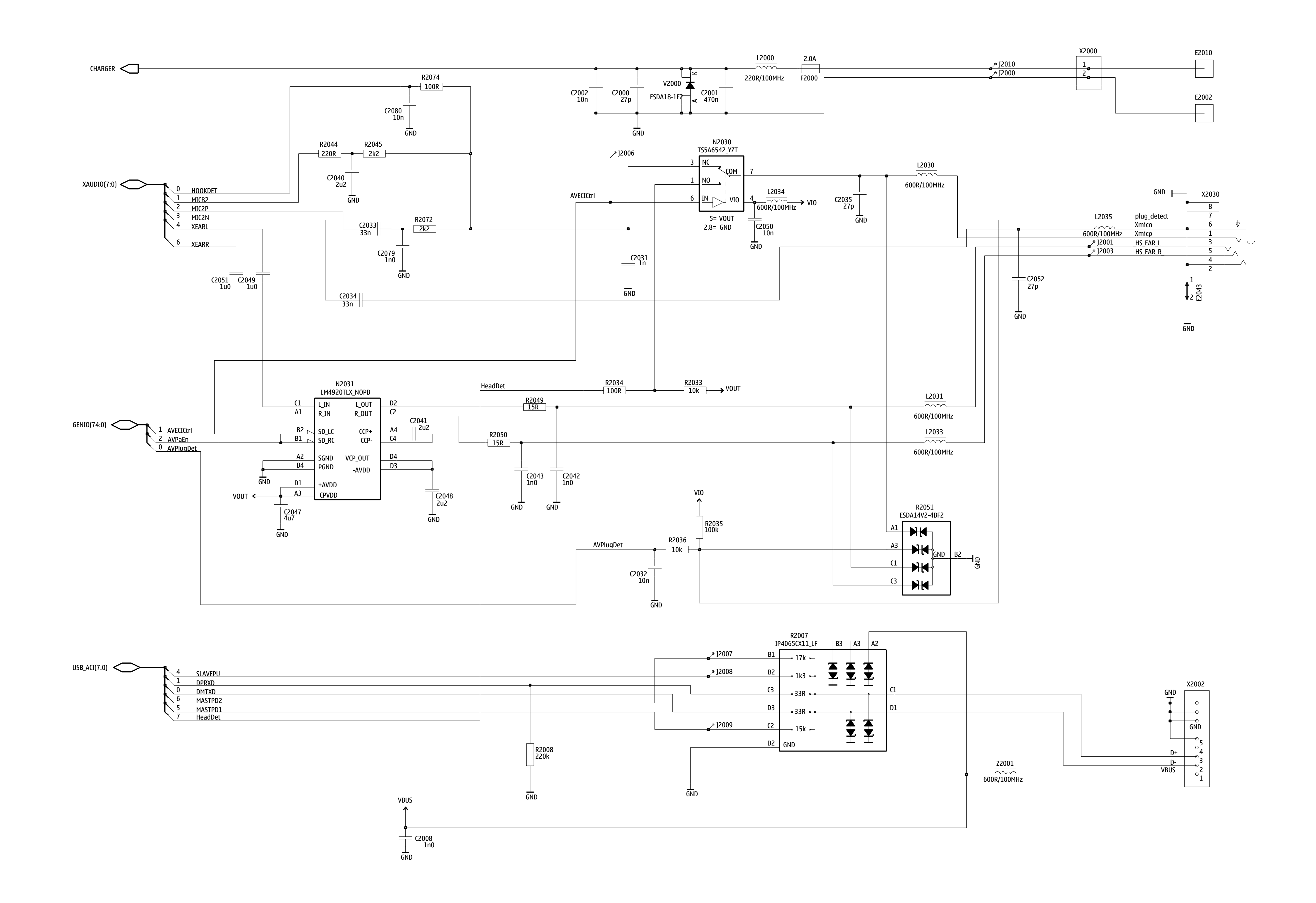
Saving process time and improving the repair quality is the aim of this document.
It is to be used additionaly to the service manual and other training or service information such as Service Bulletins.

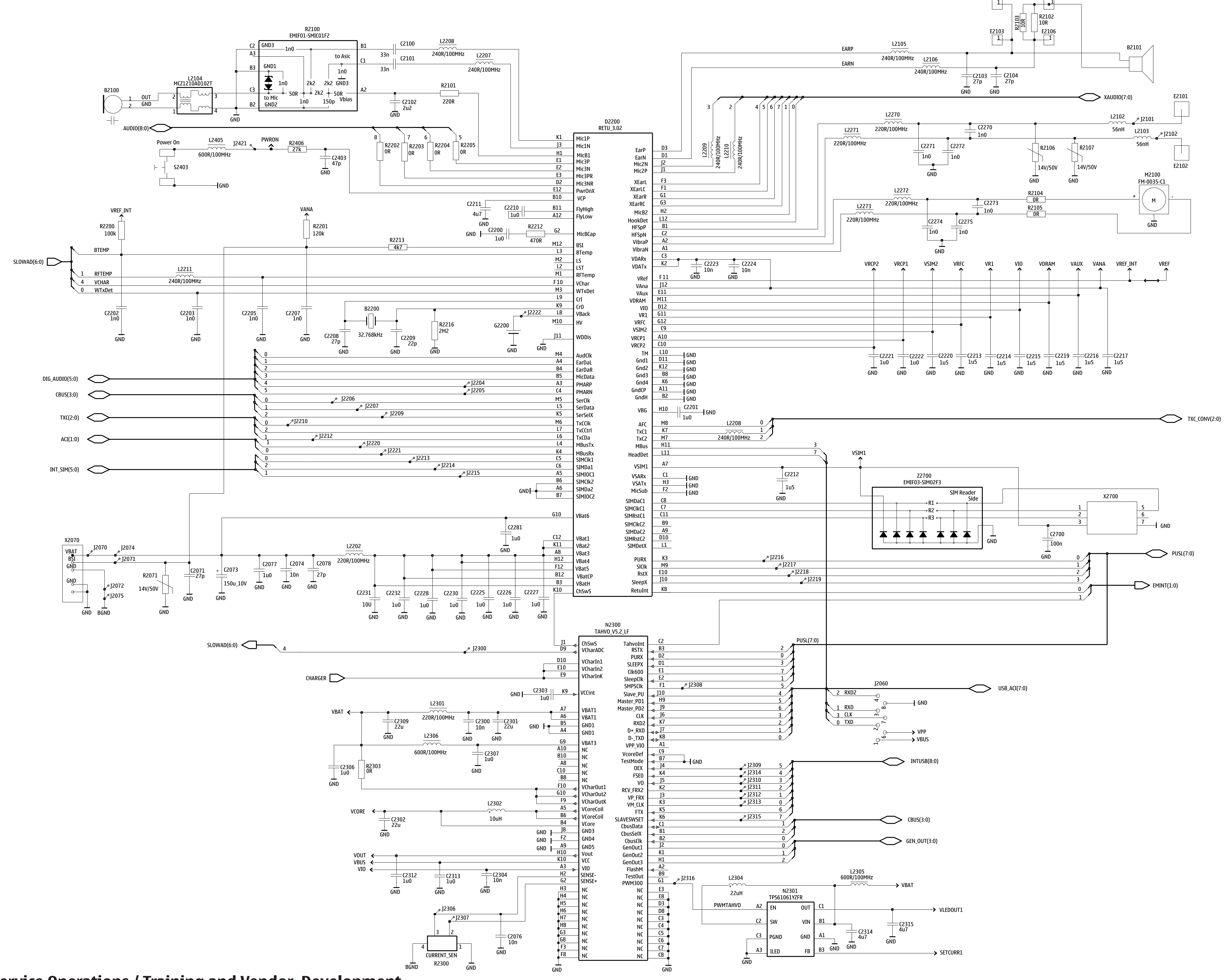
While every endeavour has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, NOKIA should be notified in writing.

Please send E-Mail to: TrainingAndVendor.Development@nokia.com

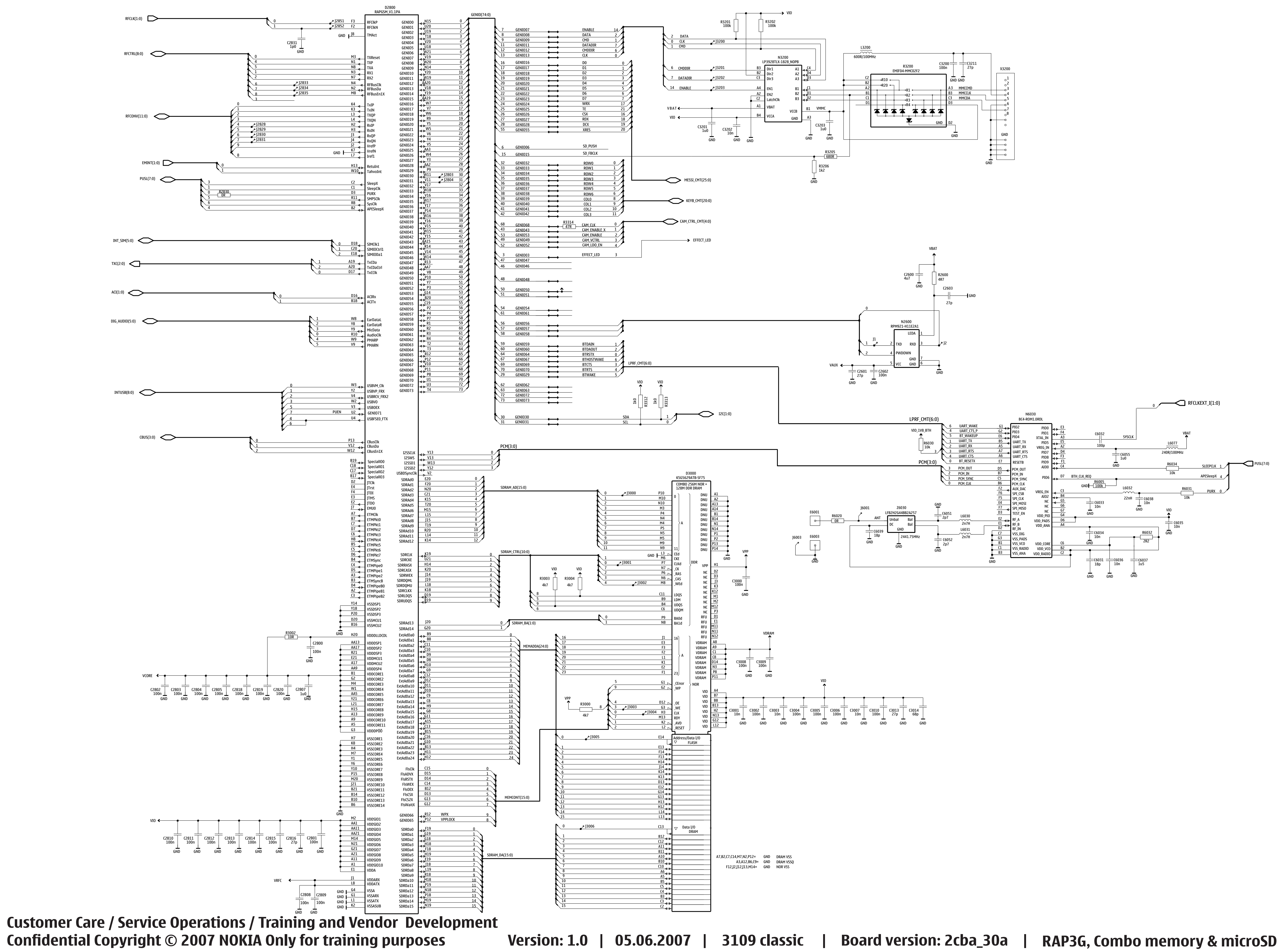


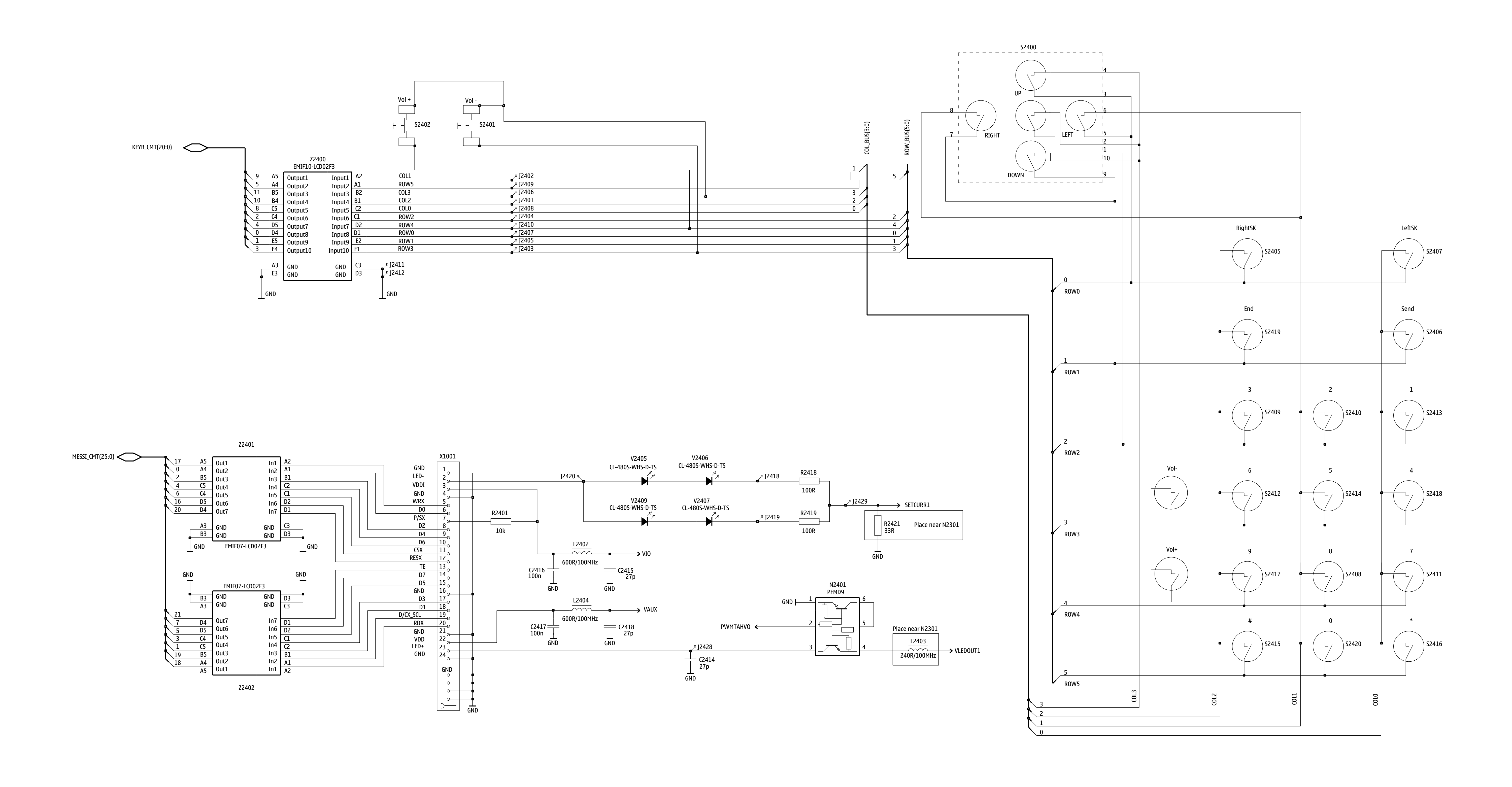
Table of contents

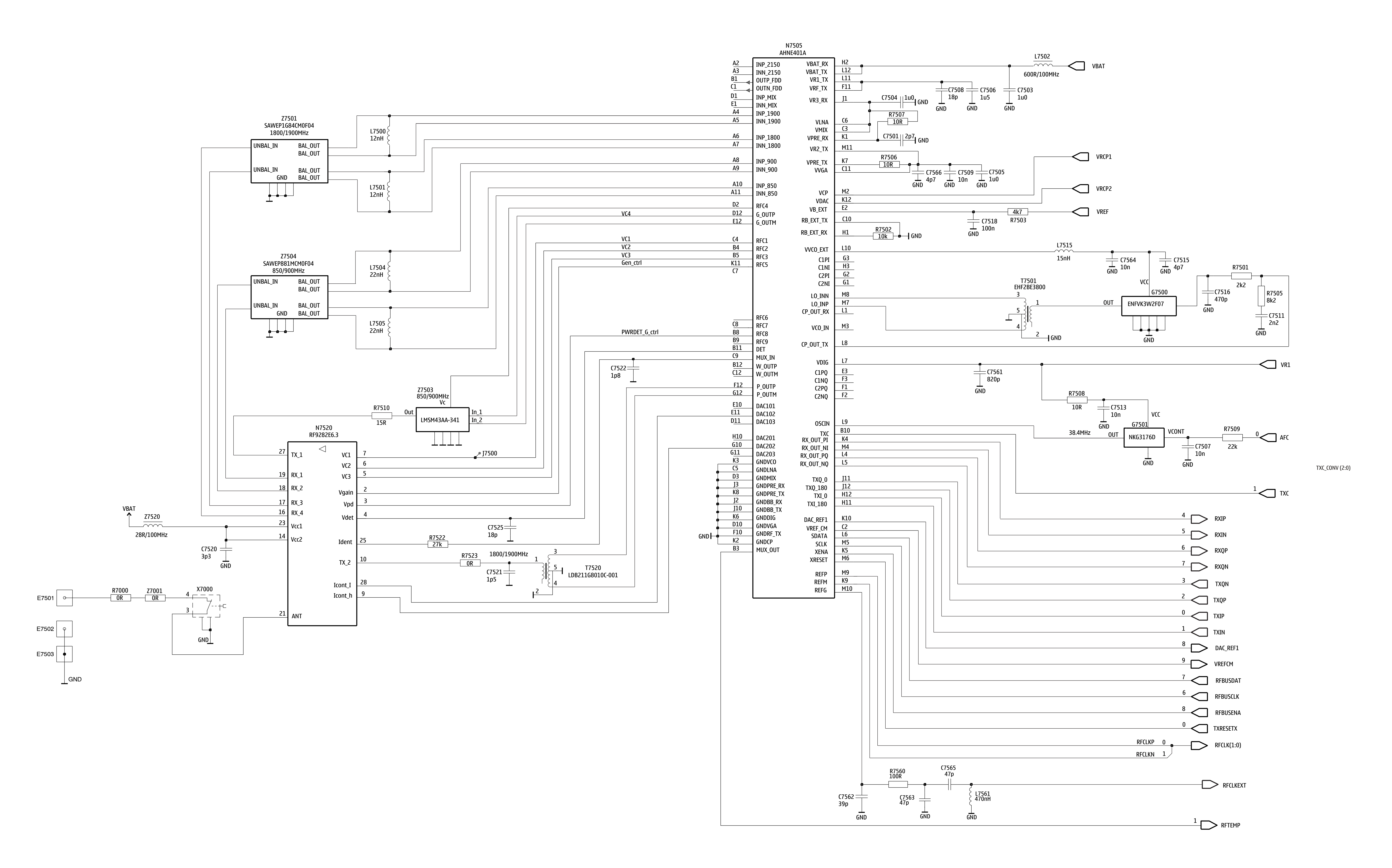




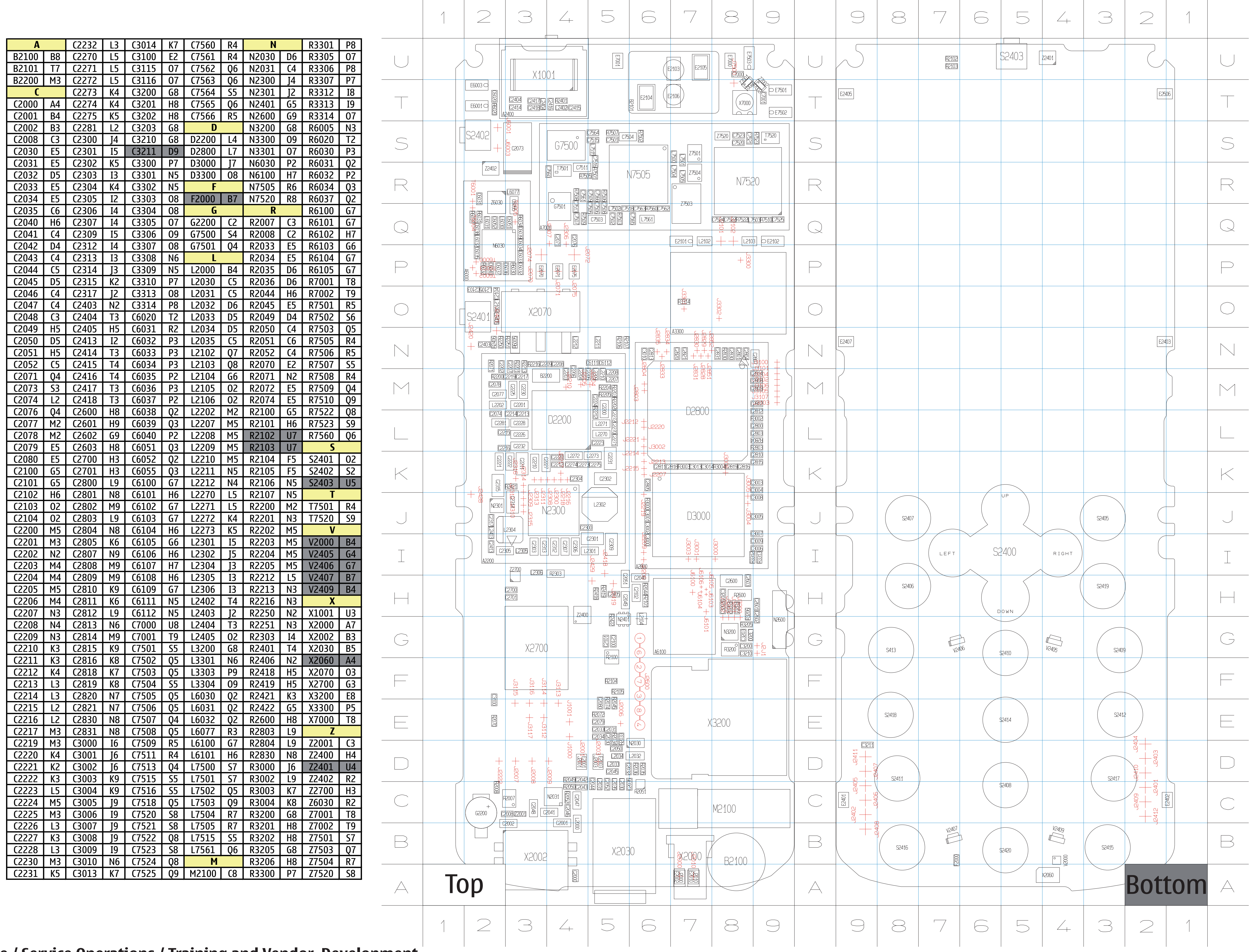
R2100
EMIF01-SMIC01F2
L2104
MCZ1210AD102T
B2100
OUT
GND
AUDIO(8:0)
Power On
S2403
L2405
600R/100MHz
J2421
PWRON
R2406
27k
C2403
47p
C2100
C2101
33n
L2208
240R/100MHz
L2207
C2102
2u2
R2101
220R
R2202
R2203
R2204
R2205
0R
D2200
RETU_3.02
VREF_INT
R2200
100k
VANA
R2201
120k
R2213
4k7
SLOWAD(6:0)
BTEMP
RFTEMP
VCHAR
WTxDet
L2211
240R/100MHz
C2202
C2203
C2205
C2207
1n0
C2211
4u7
C2210
1u0
C2200
R2212
470R
B2200
32.768kHz
C2208
27p
C2209
22p
R2216
2M2
G2200
J2222
DIG_AUDIO(5:0)
CBUS(3:0)
TXC(2:0)
ACI(1:0)
INT_SIM(5:0)
J2204
J2205
J2206
J2207
J2209
J2210
J2212
J2220
J2221
J2213
J2214
J2215
X2070
VBAT
BSI
J2070
J2074
J2071
J2072
J2075
R2071
14V/50V
C2071
27p
C2073
150u_10V
C2077
1u0
C2074
10n
C2078
27p
L2202
240R/100MHz
C2231
10U
C2232
C2228
C2230
C2225
C2226
C2227
C2281
E2105
E2104
E2103
E2106
R2103
10R
R2102
10R
B2101
EARP
EARN
L2105
240R/100MHz
L2106
C2103
27p
C2104
27p
XAUDIO(7:0)
E2101
E2102
L2209
L2210
240R/100MHz
L2270
L2271
220R/100MHz
C2270
1n0
C2271
C2272
R2106
R2107
14V/50V
L2102
56nH
L2103
J2101
J2102
M2100
FM-0035-C1
L2272
L2273
220R/100MHz
C2273
R2104
R2105
0R
C2274
C2275
C2223
10n
C2224
VRCP2
VRCP1
VSIM2
VRFC
VR1
VIO
VDRAM
VAUX
VANA
VREF_INT
VREF
C2221
C2222
C2220
C2213
C2214
C2215
C2219
C2216
C2217
1u5
C2201
L2208
240R/100MHz
TXC_CONV(2:0)
VSIM1
C2212
1u5
Z2700
EMIF03-SIM02F3
SIM Reader
Side
X2700
C2700
100n
PUSL(7:0)
EMINT(1:0)
J2216
J2217
J2218
J2219
N2300
TAHVO_V5.2_LF
J2300
CHARGER
C2303
1u0
VBAT
L2301
220R/100MHz
C2309
22u
C2300
10n
C2301
22u
L2306
600R/100MHz
C2307
1u0
C2306
1u0
R2303
0R
VCORE
C2302
22u
L2302
10uH
VOUT
VBUS
VIO
C2312
1u0
C2313
1u0
C2304
10n
J2306
J2307
CURRENT_SEN
R2300
C2076
10n
BGND
GND
J2308
J2309
J2314
J2310
J2311
J2312
J2313
J2315
J2316
J2060
RXD2
RXD
CLK
TXD
VPP
USB_ACI(7:0)
INTUSB(8:0)
CBUS(3:0)
GEN_OUT(3:0)
L2304
22uH
N2301
TPS61061YZFR
PWMTAHVO
L2305
600R/100MHz
C2314
4u7
C2315
4u7
VLEDOUT1
SETCURR1


D2800
RAPGSM_V1.1PA
N3200
R3200
N2600
N6030
Z6030
D3000
COMBO 256M NOR + 128M DDR DRAM
X3200
VBAT
VIO
VCORE
VRFC
LPRF_CMT(6:0)
PCM(3:0)
PUSL(7:0)
RFCLKEXT_I(1:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
CAM_CTRL_CMT(4:0)
EFFECT_LED
I2C(1:0)
SDRAM_AD(15:0)
SDRAM_CTRL(10:0)
SDRAM_BA(1:0)
MEMADDA(24:0)
MEMCONT(15:0)
SDRAM_DA(15:0)
GENIO(74:0)


KEYB_CMT(20:0)
Z2400
EMIF10-LCD02F3
COL_BUS(3:0)
ROW_BUS(5:0)
Vol +
Vol -
S2402
S2401
S2400
UP
RIGHT
LEFT
DOWN
RightSK
LeftSK
End
Send
MESSI_CMT(25:0)
Z2401
Z2402
EMIF07-LCD02F3
X1001
V2405
V2406
V2409
V2407
CL-480S-WHS-D-TS
R2401
R2418
R2419
R2421
Place near N2301
SETCURR1
L2402
L2404
600R/100MHz
VIO
VAUX
N2401
PEMD9
PWMTAHVO
L2403
240R/100MHz
VLEDOUT1
GND



N7505
AHNE401A
Z7501
SAWEP1G84CM0F04
1800/1900MHz
Z7504
SAWEP881MCM0F04
850/900MHz
Z7503
850/900MHz
LMSM43AA-341
N7520
RF9282E6.3
T7520
LDB211G8010C-001
T7501
EHF2BE3800
G7500
ENFVK3W2F07
G7501
NKG3176D
VBAT
VRCP1
VRCP2
VREF
VR1
AFC
TXC
RXIP
RXIN
RXQP
RXQN
TXQN
TXQP
TXIP
TXIN
DAC_REF1
VREFCM
RFBUSDAT
RFBUSCLK
RFBUSENA
TXRESETX
RFCLK(1:0)
RFCLKEXT
RFTEMP
TXC_CONV (2:0)
E7501
E7502
E7503
GND



A		C2232	L3	C3014	K7	C7560	R4	**N**		R3301	P8
B2100	B8	C2270	L5	C3100	E2	C7561	R4	N2030	D6	R3305	O7
B2101	T7	C2271	L5	C3115	O7	C7562	Q6	N2031	C4	R3306	P8
B2200	M3	C2272	L5	C3116	O7	C7563	Q6	N2300	J4	R3307	P7
C		C2273	K4	C3200	G8	C7564	S5	N2301	J2	R3312	I8
C2000	A4	C2274	K4	C3201	H8	C7565	Q6	N2401	G5	R3313	I9
C2001	B4	C2275	K5	C3202	H8	C7566	R5	N2600	G9	R3314	O7
C2002	B3	C2281	L2	C3203	G8	**D**		N3200	G8	R6005	N3
C2008	C3	C2300	J4	C3210	G8	D2200	L4	N3300	O9	R6020	T2
C2030	E5	C2301	I5	C3211	D9	D2800	L7	N3301	O7	R6030	P3
C2031	E5	C2302	K5	C3300	P7	D3000	J7	N6030	P2	R6031	Q2
C2032	D5	C2303	I3	C3301	N5	D3300	O8	N6100	H7	R6032	P2
C2033	E5	C2304	K4	C3302	N5	**F**		N7505	R6	R6034	Q3
C2034	E5	C2305	I2	C3303	O8	F2000	B7	N7520	R8	R6037	Q2
C2035	C6	C2306	I4	C3304	O8	**G**		**R**		R6100	G7
C2040	H6	C2307	I4	C3305	O7	G2200	C2	R2007	C3	R6101	G7
C2041	C4	C2309	I5	C3306	O9	G7500	S4	R2008	C2	R6102	H7
C2042	D4	C2312	I4	C3307	O8	G7501	Q4	R2033	E5	R6103	G6
C2043	C4	C2313	I3	C3308	N6	**L**		R2034	E5	R6104	G7
C2044	C5	C2314	J3	C3309	N5	L2000	B4	R2035	D6	R6105	G7
C2045	D5	C2315	K2	C3310	P7	L2030	C5	R2036	D6	R7001	T8
C2046	C4	C2317	J2	C3313	O8	L2031	C5	R2044	H6	R7002	T9
C2047	C4	C2403	N2	C3314	P8	L2032	D6	R2045	E5	R7501	R5
C2048	C3	C2404	T3	C6020	T2	L2033	D5	R2049	D4	R7502	S6
C2049	H5	C2405	H5	C6031	R2	L2034	D5	R2050	C4	R7503	Q5
C2050	D5	C2413	I2	C6032	P3	L2035	C5	R2051	C6	R7505	R4
C2051	H5	C2414	T3	C6033	P3	L2102	Q7	R2052	C4	R7506	R5
C2052	C5	C2415	T4	C6034	P3	L2103	Q8	R2070	E2	R7507	S5
C2071	Q4	C2416	T4	C6035	P2	L2104	G6	R2071	N2	R7508	R4
C2073	S3	C2417	T3	C6036	P3	L2105	O2	R2072	E5	R7509	Q4
C2074	L2	C2418	T3	C6037	P2	L2106	O2	R2074	E5	R7510	Q9
C2076	Q4	C2600	H8	C6038	Q2	L2202	M2	R2100	G5	R7522	Q8
C2077	M2	C2601	H9	C6039	Q3	L2207	M5	R2101	H6	R7523	S9
C2078	M2	C2602	G9	C6040	P2	L2208	M5	R2102	U7	R7560	Q6
C2079	E5	C2603	H8	C6051	Q3	L2209	M5	R2103	U7	**S**	
C2080	E5	C2700	H3	C6052	Q2	L2210	M5	R2104	F5	S2401	O2
C2100	G5	C2701	H3	C6055	Q3	L2211	N5	R2105	F5	S2402	S2
C2101	G5	C2800	L9	C6100	G7	L2212	N4	R2106	N5	S2403	U5
C2102	H6	C2801	N8	C6101	H6	L2270	L5	R2107	N5	**T**	
C2103	O2	C2802	M9	C6102	G7	L2271	L5	R2200	M2	T7501	R4
C2104	O2	C2803	L9	C6103	G7	L2272	K4	R2201	N3	T7520	S9
C2200	M5	C2804	N8	C6104	H6	L2273	K5	R2202	M5	**V**	
C2201	M3	C2805	K6	C6105	G6	L2301	I5	R2203	M5	V2000	B4
C2202	N2	C2807	N9	C6106	H6	L2302	J5	R2204	M5	V2405	G4
C2203	M4	C2808	M9	C6107	H7	L2304	J3	R2205	M5	V2406	G7
C2204	M4	C2809	M9	C6108	H6	L2305	I3	R2212	L5	V2407	B7
C2205	M5	C2810	K9	C6109	G7	L2306	I3	R2213	N3	V2409	B4
C2206	M4	C2811	K6	C6111	N5	L2402	T4	R2216	N3	**X**	
C2207	N3	C2812	L9	C6112	N5	L2403	J2	R2250	N2	X1001	U3
C2208	N4	C2813	N6	C7000	U8	L2404	T3	R2251	N3	X2000	A7
C2209	N3	C2814	M9	C7001	T9	L2405	O2	R2303	I4	X2002	B3
C2210	K3	C2815	K9	C7501	S5	L3200	G8	R2401	T4	X2030	B5
C2211	K3	C2816	K8	C7502	Q5	L3301	N6	R2406	N2	X2060	A4
C2212	K4	C2818	K7	C7503	Q5	L3303	P9	R2418	H5	X2070	O3
C2213	L3	C2819	K8	C7504	S5	L3304	O9	R2419	H5	X2700	G3
C2214	L3	C2820	N7	C7505	Q5	L6030	Q2	R2421	K3	X3200	E8
C2215	L2	C2821	N7	C7506	Q5	L6031	Q2	R2422	G5	X3300	P5
C2216	L2	C2830	N8	C7507	Q4	L6032	Q2	R2600	H8	X7000	T8
C2217	M3	C2831	N8	C7508	Q5	L6077	R3	R2803	L9	**Z**	
C2219	M3	C3000	I6	C7509	R5	L6100	G7	R2804	L9	Z2001	C3
C2220	K4	C3001	J6	C7511	R4	L6101	H6	R2830	N8	Z2400	H4
C2221	K2	C3002	J6	C7513	Q4	L7500	S7	R3000	J6	Z2401	U4
C2222	K3	C3003	K9	C7515	S5	L7501	S7	R3002	L9	Z2402	R2
C2223	L5	C3004	K9	C7516	S5	L7502	Q5	R3003	K7	Z2700	H3
C2224	M5	C3005	J9	C7518	Q5	L7503	Q9	R3004	K8	Z6030	R2
C2225	M3	C3006	I9	C7520	S8	L7504	R7	R3200	G8	Z7001	T8
C2226	L3	C3007	J9	C7521	S8	L7505	R7	R3201	H8	Z7002	T9
C2227	K3	C3008	J9	C7522	Q8	L7515	S5	R3202	H8	Z7501	S7
C2228	L3	C3009	I9	C7523	S8	L7561	Q6	R3205	G8	Z7503	Q7
C2230	M3	C3010	N6	C7524	Q8	**M**		R3206	H8	Z7504	R7
C2231	K5	C3013	K7	C7525	Q9	M2100	C8	R3300	P7	Z7520	S8